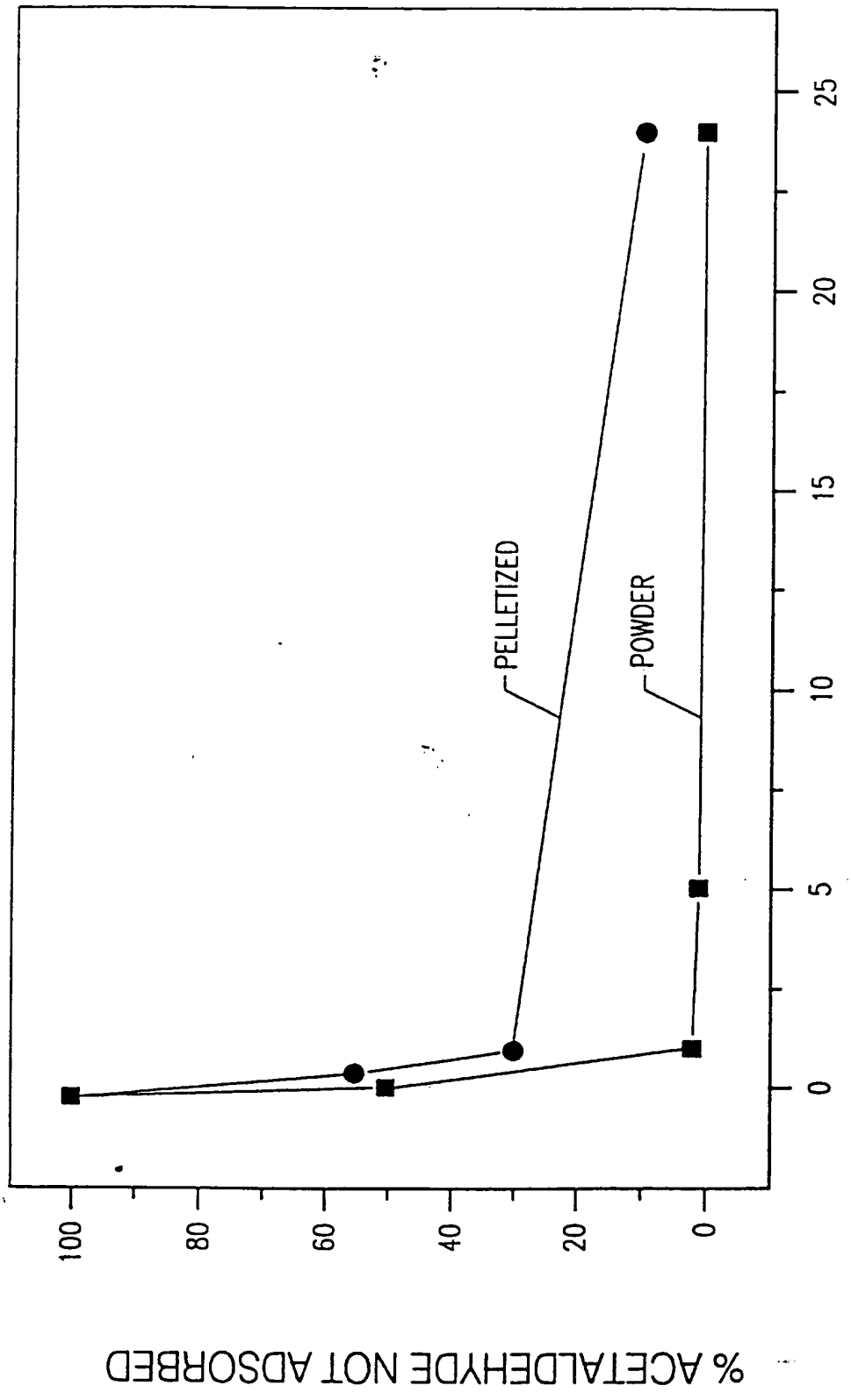
% ACETALDEHYDE NOT ADSORBED
100
80
60
40
20
0
0
5
10
15
20
25
TIME (HOURS)
PELLETIZED
POWDER

FIG. 1

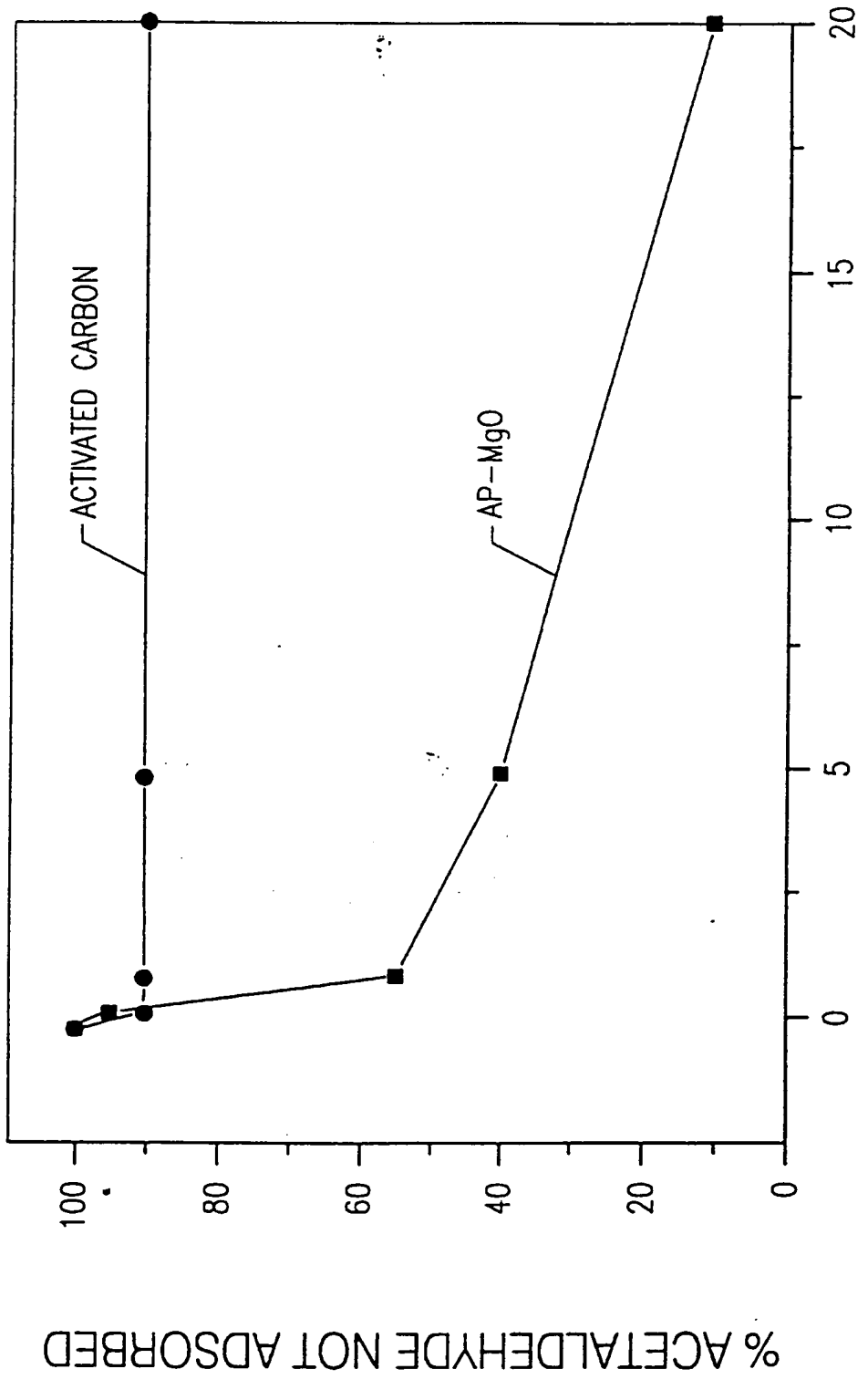
ACTIVATED CARBON
AP-MgO
% ACETALDEHYDE NOT ADSORBED
100
80
60
40
20
0
0
5
10
15
20
TIME (HOURS)

FIG. 2

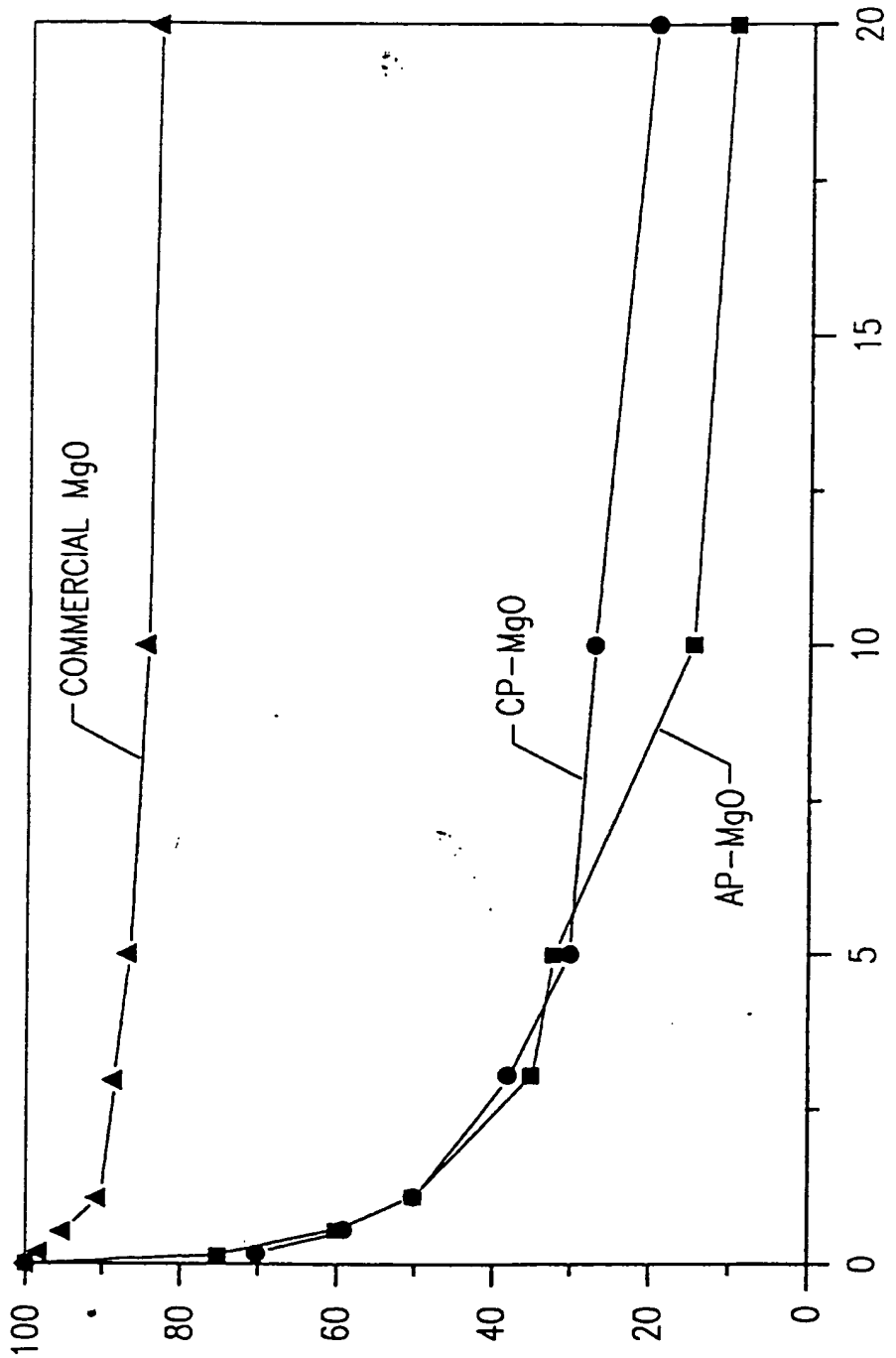
% ACETALDEHYDE NOT ADSORBED
100
80
60
40
20
0
0
5
10
15
20
TIME (HOURS)
COMMERCIAL MgO
CP-MgO
AP-MgO

FIG. 3

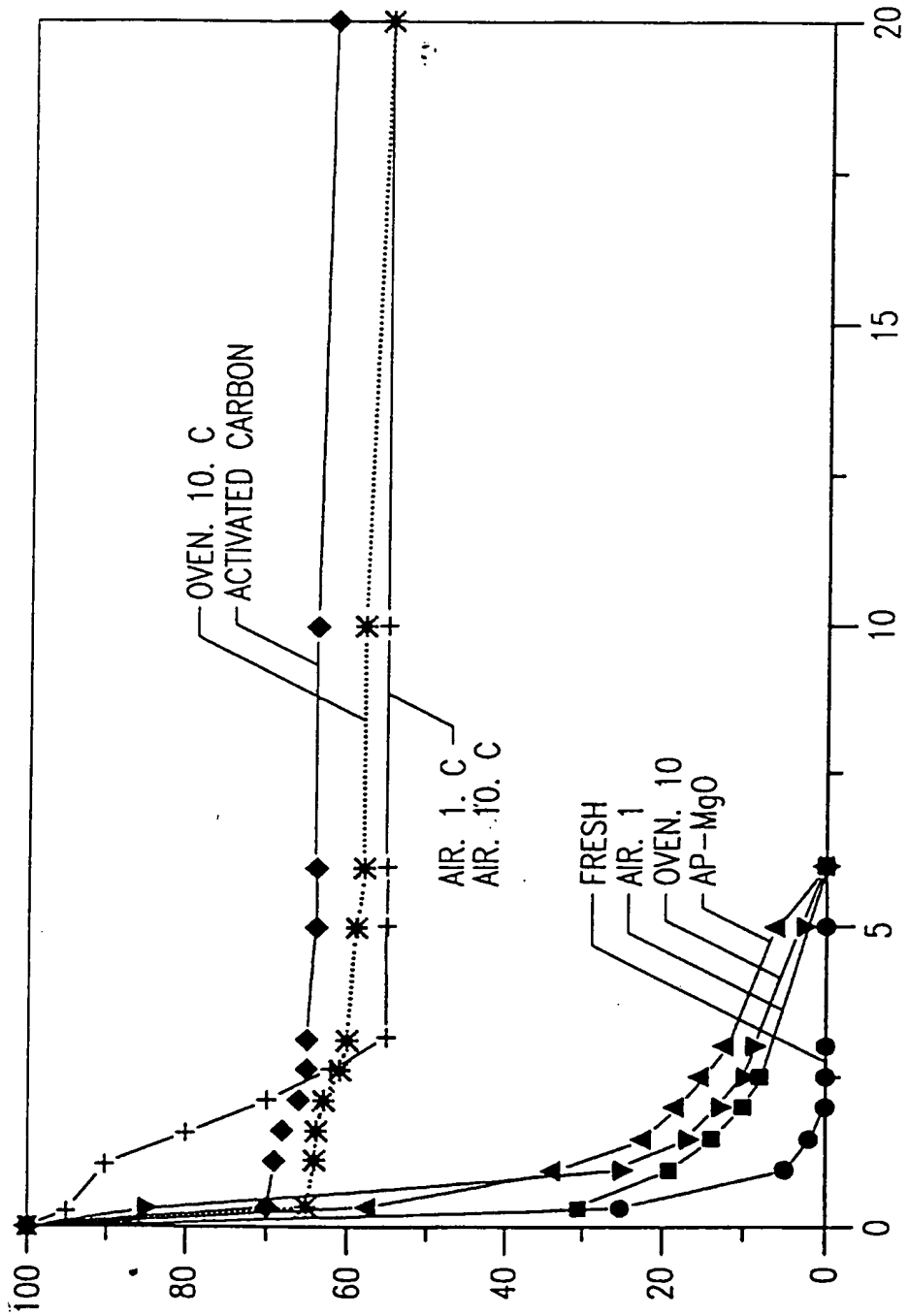
OVEN. 10. C
ACTIVATED CARBON
AIR. 1. C
AIR. 10. C
FRESH
AIR. 1
OVEN. 10
AP-MgO
% ACETALDEHYDE NOT ADSORBED
TIME (HOURS)
100
80
60
40
20
0
0
5
10
15
20

FIG. 4

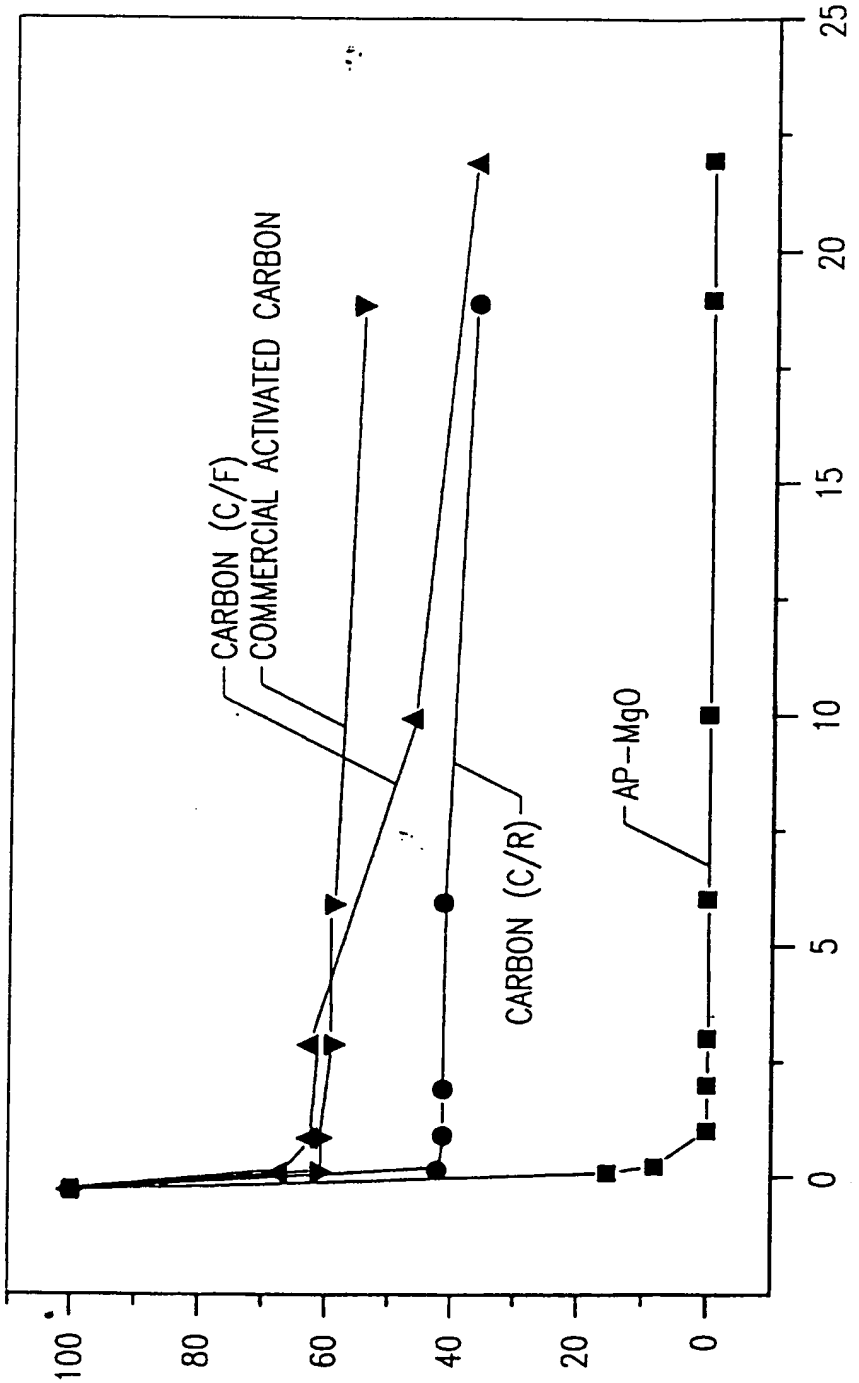
% PROPIONALDEHYDE NOT ADSORBED
100
80
60
40
20
0
0
5
10
15
20
25
TIME (HOURS)
CARBON (C/F)
COMMERCIAL ACTIVATED CARBON
CARBON (C/R)
AP-MgO

FIG. 5

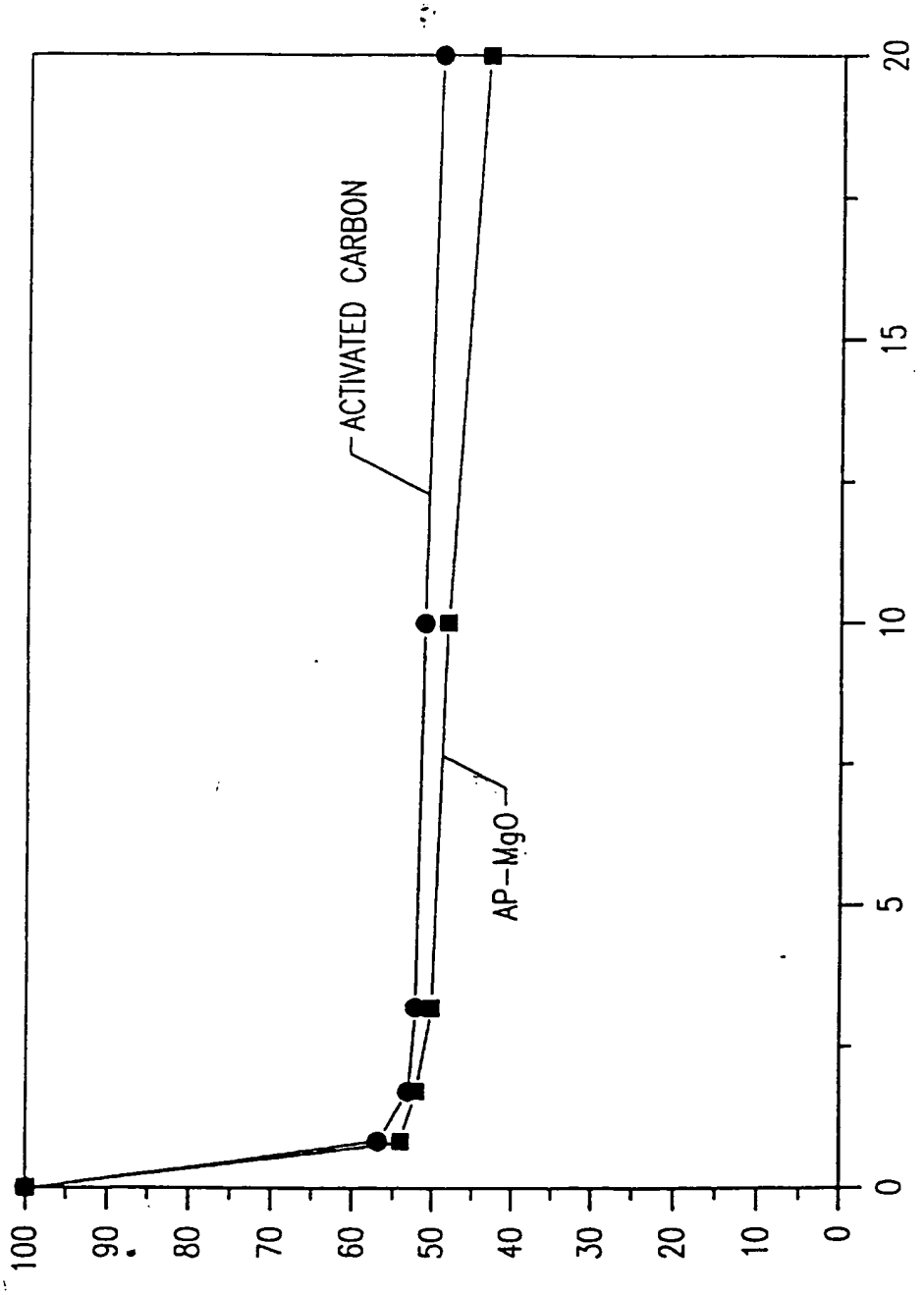
% DIMETHYLAMINE NOT ADSORBED
100
90
80
70
60
50
40
30
20
10
0
0
5
10
15
20
TIME (HOURS)
ACTIVATED CARBON
AP-MgO

FIG. 6

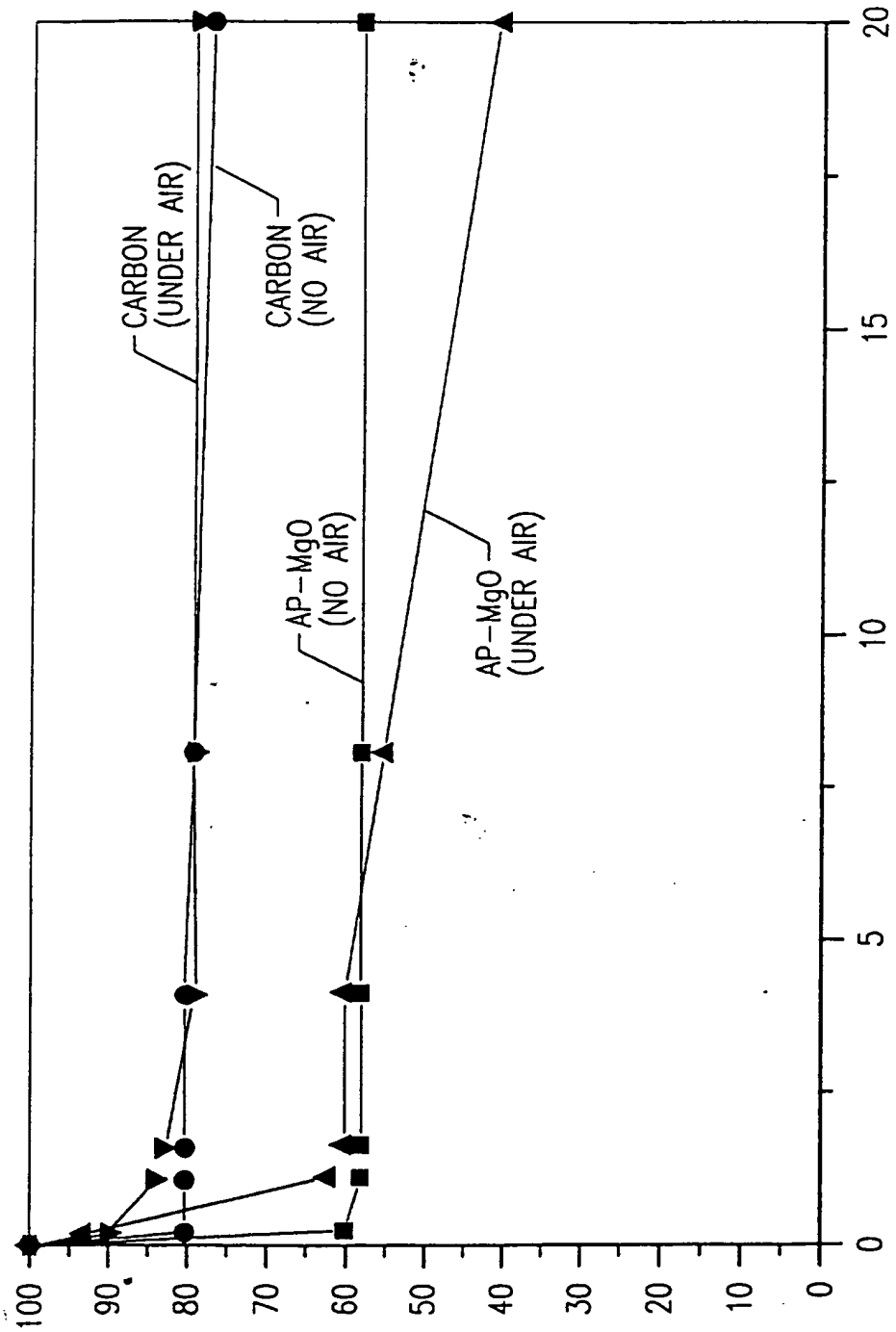
CARBON (UNDER AIR)
CARBON (NO AIR)
AP-MgO (NO AIR)
AP-MgO (UNDER AIR)
% AMMONIA NOT ADSORBED
TIME (HOURS)
0
10
20
30
40
50
60
70
80
90
100
0
5
10
15
20

FIG. 7

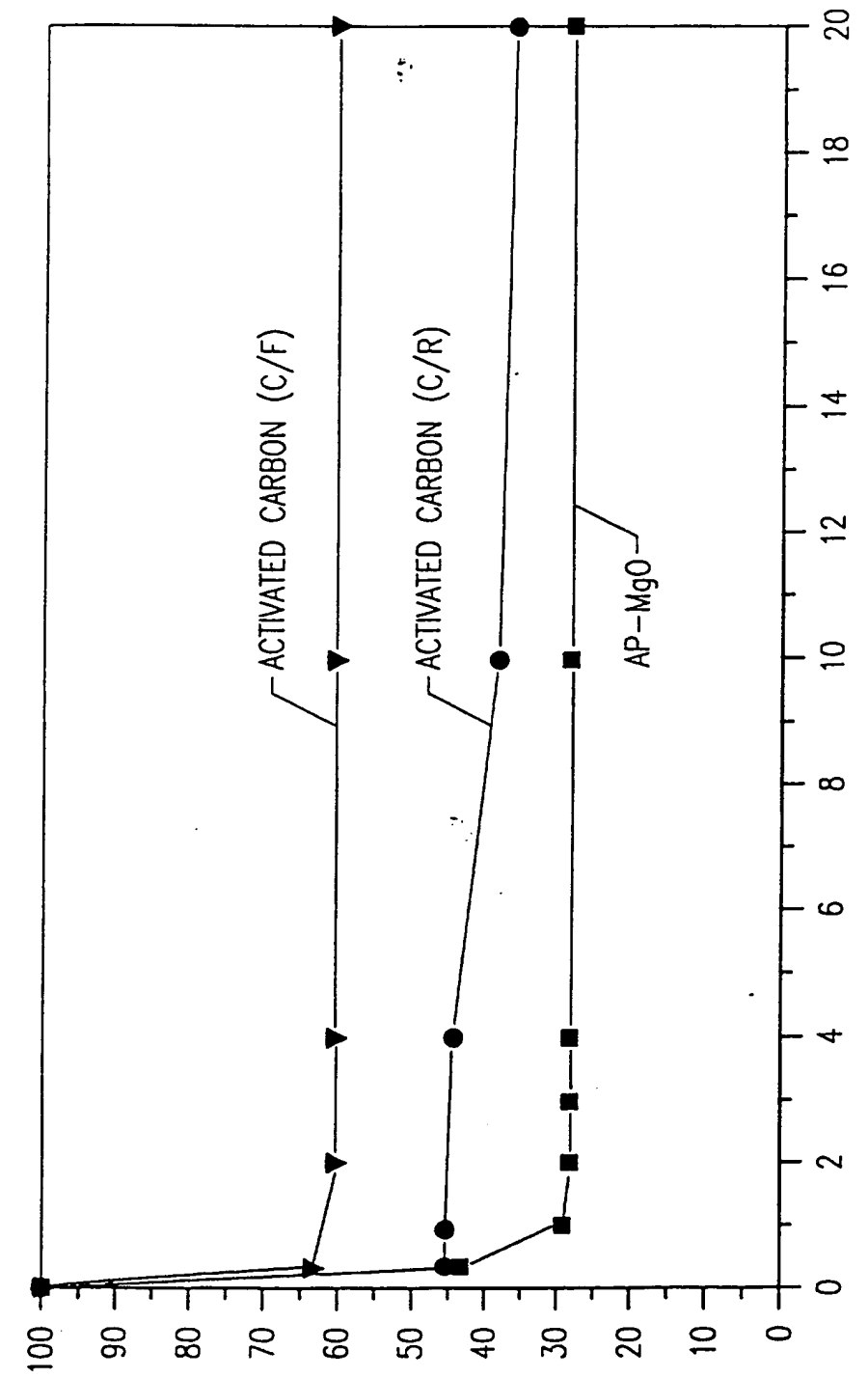
% METHANOL VAPOR NOT ADSORBED
100
90
80
70
60
50
40
30
20
10
0
0
2
4
6
8
10
12
14
16
18
20
TIME (HOURS)
ACTIVATED CARBON (C/F)
ACTIVATED CARBON (C/R)
AP-MgO

FIG. 8